04	104	100

## NMFS FISHERIES OBSERVER PROGRAM CATCH ESTIMATION WORKSHEET

OBS/TRIP ID	Α
DATE LANDED mm/yy	В /
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CATCHESTIM	ATION	WUKI	(SHEET						H.	AUL#		
FISHING METHOD	1	CATCH E	STIMATION MET	HOD 3 ** (	CATCH SHAPE, MEASUR	EMENTS & VOLUME						
Picked	1	Weighed			mment and draw catch sha	ape.						
Shoveled	2	Volume to	o Volume	2	4							
Deckloaded	3	Basket or	r Tote Count	3								
Conveyor System	4	Captain		4 Re	ect./square (L x W x D)	1L		W <sub>1</sub>		D	= Vft <sup>3</sup>	
Combination (comment	t) 8	Tally		5 Tra	apezoidal ([(W <sub>1</sub> + W <sub>2</sub> )]/2xL	(D) 2 L		W <sub>1</sub>	W <sub>2</sub>	D	= V ft <sup>3</sup>	
Other (comment)	9	Visually E	Estimated	6 Tri	angular (L x W / 2 x D)	3L		W		D	= Vft <sup>3</sup>	
1A		Cumulativ	ve Sum Method	7Cir	rcular (π r² x D)	4 r				D	= Vft <sup>3</sup>	
HAUL NUMBERS WHE	ERE	Combinat	tion (comment)	80v	$ral(r_1 \times r_2 \times \pi \times D)$			r <sub>2</sub>		D	= Vft <sup>3</sup>	
DECKLOADING OCCU	JRRED	Other (co	mment)	9 Otl	her/Combination (commen	9			4A			
2			3A									
	<del></del>			— Are	e measurements the same		NO 0	YES 1 5				
** # SUBSAMPLING	** VOL SU	IBSAMPLI	E CONTAINER	** TOTAL SI	UBSAMPLE VOLUME =	** SAMPLE WEIGH	T MULTIPLIER	** PERCENT SUB	SAMPLED	Volume of Subsample	Circular Shapes	
CONTAINERS USED	Orange Ba		1 1.47 ft <sup>3</sup>	# subsample	e containers used x	total catch vol / total	subsamp vol	(total sub-samp vo	/ total catch )	1 Basket = 1.47 ft <sup>3</sup>	r = radius	
	Fish Tote		2 2.65 ft <sup>3</sup>	volume of a	sub-sample container			vol) x 100		2 Baskets = 2.94 ft <sup>3</sup>	r = diameter / 2	
	Other		9 ft <sup>3</sup>							3 Baskets = 4.41 ft <sup>3</sup>	r <sub>1</sub> = short radius	
6		7A			<b>8</b> ft <sup>3</sup>	9		10	%	4 Baskets = 5.88 ft <sup>3</sup>	r <sub>2</sub> = long radius	
		п			Looutento					5 Baskets = 7.35 ft <sup>3</sup>	$\pi = 3.14$	
** SPECIES	** SUBSA WGT (lb		** SPECIES	** SUBSAM WGT (lbs)						Angular Shapes	Trapezoidal Shape	.06
OI LOILO	WG1 (IL	15)	OI LOILO	WGT (IDS)	<u> </u>					A = area	W <sub>1</sub> = short width	<u>55</u>
11	12									V = volume	$W_2 = long width$	
										W = width	WZ = long width	
										D = catch depth		
										B = oaton dopun		
					_							
					_							
					** Required only when	using the volume to v	olume method.					